

IN THE CLAIMS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)
2. (Cancelled)
3. (Currently Amended) A pump as claimed in ~~claim 19~~claim 22 wherein the membrane is formed from an elastomeric material.
4. (Previously Presented) A pump as claimed in claim 3 wherein the membrane is formed from elastomeric sheet material.
5. (Currently Amended) A pump as claimed in ~~claim 19~~claim 22 wherein the membrane is damped-clamped between first and second sections[,] of the housing-a housing, each housing section with one of the opposing surfaces having a cavity section such that when the housing sections are assembled to form the housing, the cavity with opposing surfaces is formed.
6. (Cancelled)
7. (Currently Amended) A pump as claimed in ~~claim 6~~claim 22 further including a device to cyclically apply ~~the~~ positive and negative pressures to the cavity via the pressure port to cause the membrane to move between the stable states.

8. (Cancelled)

9. (Previously Presented) A pump as claimed in claim 5 wherein the housing sections are joined together and to clamp the membrane about a peripheral margin thereof.

10. (Previously Presented) A pump as claimed in claim 5 wherein the first housing section includes a recess into which the membrane is located, the peripheral dimensions of the membrane being greater than those of the recess whereby compressive forces are set up in the membrane when it is installed in the recess to thereby create the preset.

11. (Currently Amended) A pump as claimed in ~~claim 6~~claim 5 wherein the second housing section includes a protruding portion which engages in the recess when the first and second housing sections are combined together, to cause the membrane to be clamped in place.

12. (Currently Amended) A pump as claimed in ~~claim 19~~claim 5 further including a third housing section coupled to the second housing section, said third housing section including means for facilitating connection of inlet and outlet conduits for pumpable material.

13. (Original) A pump as claimed in claim 12 wherein the second and third housing sections include inlet and outlet openings and means for locating therein a valve element.

14. (Original) A pump as claimed in claim 13 wherein the valve element is a disk of flexible material.

15. (Cancelled)

16. (Currently Amended) A pump as claimed in ~~claim 7~~^{claim 22} wherein the cavity is ~~elongate and~~ of curved cross-section.

17. (Currently Amended) A pump as claimed in claim ~~15 or~~¹⁵ 16 wherein the ends of the elongate cavity are complex curved.

18. (Cancelled)

19. (Cancelled)

20. (Previously Presented) A pump as claimed in claim 7 wherein the clamping of the membrane creates further compressive forces in the membrane.

21. (Cancelled)

22. (New) A pump including:

- i. an elongate cavity with opposing surfaces;
- ii. inlet and outlet passages communicating with the cavity;
- iii. a pressure port communicating with the cavity and offset towards one end of the cavity; and
- iv. a flexible membrane located within the cavity;

wherein the flexible membrane:

- a) has a first stable state in contact with one of the opposing surfaces, the first stable state corresponding to completion of an inlet stage of a pumping cycle;
- b) has a second stable state in contact with the other opposing surface, the second stable state corresponding to completion of an exhaust stage of said pumping cycle; and
- c) can be caused to invert from one stable state to the other stable state by application of positive or negative pressure to the cavity via the pressure port.

23. (New) A pump including:

- i. an elongate cavity with opposing surfaces;
- ii. inlet and outlet passages communicating with the cavity;
- iii. a pressure port connected to the cavity; and
- iv. a flexible membrane located within the cavity;

wherein the flexible membrane:

- a) has a first stable state in contact with one of the opposing surfaces, the first stable state corresponding to completion of an inlet stage of a pumping cycle;
- b) has a second stable state in contact with the other opposing surface, the second stable state corresponding to completion of an exhaust stage of the pumping cycle; and
- c) can be caused to invert from one stable state to the other stable state by application of positive or negative pressure to the cavity via the pressure port

and wherein recessed flow paths are formed in the opposing surfaces such that fluid can flow along each surface even when the flexible membrane is in contact with the surface.

24. (New) A pump as claimed in claim 23 wherein the housing sections are joined together and to clamp the membrane about a peripheral margin thereof.

25. (New) A pump as claimed in claim 23 wherein the pressure port is offset in the length of the cavity.

26. (New) A pump as claimed in claim 23 wherein the cavity is of curved cross-section.

27. (New) A pump as claimed in claim 23 wherein the ends of the elongate cavity are complex curved.

28. (New) A pump as claimed in claim 23 wherein the recessed flow paths include one or more grooves formed in the opposing surfaces.